16)What type of epithelium does the loop of Henle have?

- a) Ciliated columnar
- b) Pseudostratified columnar
- c) Simple cuboidal Simple squamous
- e) Transitional
- 17) Herring bodies filled with oxytocin and vasopressin (ADH) are found in which of the following?
  - a) Anterior pituitary
  - b) Parathyroid gland
  - Posterior pituitary
    d) Suprarenal gland

  - e) Thyroid gland
- 18)TSH, ACTH, FSH and LH are produced by which of the following?
  - a) Acidophils of the anterior pituitary
  - Basophils of the anterior pituitary
  - c) Hypothalamus
  - d) Posterior pituitary
  - e) Suprarenal gland
- 19) Which of the following hormones causes the production of milk?
  - a) Aldosterone
  - b) Cortisol
  - c) Oxytocin
  - Prolactin
  - e) Somatostatin
- 20)The presence of TSH promotes which of the following?
- Conjugation of T4 and T3 to thyroglobulinProduction of T4 and T3
- - c) Release of stored T4 and T3
- Release of iodine from T4 and T3
- e) Storage ot T4 and T3 in follicles

- 21)Comparing the quantity produced and the potency of T4 and T3, which of the following is true?a) Both are equally potentb) Both are produced in approximately equal quantities
  - c) There is more T3, T4 is stronger
    There is more T4, T3 is stronger
- 22) Marked hyperthyroidism is known as which of the following?
- a) Cushing's disease
  b) Goiter
- (c) Grave's disease
  Hashimoto's disease
  Myxedema
- 23) Which of the following increases the amount of calcium in the blood?
  - a) Aldosterone
  - b) Calcitonin
  - c) Cortisol
  - d) Melatonin
  - (e) Parathyroid hormone
- 24) Which of the following is produced in the zona fasciculata?
  - a) Aldosterone
  - b) Calcitonin
  - Cortisol
  - Melatonin (
  - R) Parathyroid hormone
- 25) Which of the following is produced by the pineal gland?
  - a) Aldosterone
  - b) Calcitonin
  - c) Cortisol
  - 🐿 Melatonin
  - e) Parathyroid hormone
- 26)A nephron and its associated collecting duct form which of the following?
  - (a) Loop of Henle
  - b) Major calyx
  - s). Renal corpuscle
  - d)\_Renal papilla

(e)) Uriniferous tubule

汝)What is the name of the capillary tuft in the filtration system?

Bowman's capsule
 Glomerulus

- c) Loop of Henle
- d) Renal column
- e) Renal papilla

28)What acts as the actual filter in the filtration process?

- Basal lamina
  b) Bowman's capsule
- c) Endothelium
- d) Filtration slit
- e) Juxtaglomerular cells

29) Which of the following cell types forms the filtration slits?

- a) Endothelium
- b) Juxtaglomerular
- c) Macula densa
- Podocyte
- e) Simple cuboidal

(Reabsorption of glucose takes place in which of the following?)

- a) Bowman's capsule
- b) Distal convoluted tubule
- Loop of Henie
- d) Macula densa
- e) Proximal convouluted tubule

31) Which of the following secretes rennin to increase blood pressure?

- a) Bowman's capsule
- Juxtaglomerular cells
- c) Loop of Henle
- d) Macula densa
- e) Proximal convouluted tubule

32) Which of the following regulates blood flow in the afferent arteriole to control filration rate?

- a) Bowman's capsule
- b) Juxtaglomerular cells
- c) Loop of Henle
- d) Macula densa
- (e) Proximal convouluted tubule

33) Which of the following is characterized by microvilli and apical vacuoles?

- a) Bowman's capsule
- b) Juxtagiomerular cells
- c) Loop of Henle
- d) Macula densa
- Proximal convouluted tubule

34)Where does secretion of hydrogen ions into the urine for the regulation of pH occur?

- a) Collecting duct
- b) Distal convoluted tubule
- C) Loop of Henle
- d) Proximal convoluted tubule e) Renal corpuscle

35) What type of epithelium does the bladder have?

- a) Ciliated columnar
- b) Pseudostratified columnar
- c) Simple cuboidal
- d) Simple squamous
- (C) Transitional

16)Which of the following differentiates serosa from advantitia?
<ul> <li>a) Definitive underlying external elastic lamina</li> <li>b) Peritoneal covering</li> <li>c) Presence of elastic fibers</li> <li>d) Presence of vasa vasorum</li> <li>e) Vasculature vs. Gl tract</li> </ul>
17) Which of the following exocrine glands is characterized by serous demilunes?
a) Liver b) Pancreas c) Parotid d) Sublingual  E) Submandibular
(18) Which of the following exocrine glands is characterized by centroacinar cells?
a) Liver  D Pancreas c) Parotid d) Sublingual e) Submandibular
19) Which of the following pancreatic cell types produces insulin?
a) Alpha ① Beta c) Gamma d) G
(20) Which of the following cell types produce surfactant?
<ul> <li>a) Alveolar macrophages</li> <li>b) Clara cells</li> <li>c) Kuppfer cells</li> <li>d) Type 1 pneumocytes</li> <li>e) Types 2 pneumocytes</li> </ul>

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21)What is the function of the Fab fragment of an antibody?	
<ul> <li>a) Binds to antigen</li> <li>b) Cleaved to activate the antibody</li> <li>c) Provides binding site for complement proteins</li> <li>d) Provides binding site for macrophages</li> <li>e) Transmembrane portion for attachment to B cell</li> </ul>	
22)Which of the following classes of antibodies is found in saliva, protects mucous membranes and provides passive immunity to infants?	
a) IgA b) IgD c) IgE d) IgG e) IgM	
23) Which of the following cell types produce antibodies?	
<ul> <li>a) Antigen presenting cells</li> <li>b) B cells</li> <li>c) Mast cells</li> <li>d) NK cells</li> <li>e) T cells</li> </ul>	
24)Which of the following molecules is responsible of the identification of "self" and triggers rejection responses in transplants?	
a) CD4 b) IgE C) MHC I d) MHC II e) T cell receptor	
√25)Which of the following organs plays the most significant role in preventing autoimmune disease?	
Bone marrow b) Liver C) Lymph node d) Spleen e) Thymus	

- 26)Plasma cells which are actively secreting antibodies are located in which portion of the lymph node?
  - a) Cortex
  - b) Medulla
  - c) Medullary cords
  - d) Paracortex
- -> e) Subcapsular space
- 27) Which of the following are the large lingual papillae found on the posterior aspect of the tongue which tend to retain taste molecules and are primarily responsible for sensing bitter compounds?



(a) Circumvalate

- b) Filiform
- c) Folate
- d) Fungiform
- 28) Which of the following cell types produces hydrochloric acid in the stomach?
  - a) DNES
  - b) Epithelial
- Oxyntic (parietal)
  - d) Paneth
  - e) Zymogenic (chief)
- 29) Which of the following cell types produces lysozyme in the small intestine?
  - a) DNES
  - b) Epithelial
  - c) Oxyntic (parietal)
  - 2 Paneth
  - (e) Zymogenic (chief)
- 30) Which of the following is located between the layers of the muscularis externa and controls peristalsis?



- a) Auerbach's plexus b) DNES
- c) External elastic lamina
- d) Meissner's plexus
- e) Vasa vasorum

- 31) Which of the following types of epithelium is found in the trachea and bronchi?
  - a) High cuboidal to low columnar
  - Psuedostratified columnar
    Simple cuboidal
  - d) Simple squamous
- 32) Which of the following types of epithelium is found in alveoli?
  - a) High columnar
  - b) High cuboidal to low columnar
  - c) Psuedostratified columnar
  - d) Simple cuboidal
- \Simple squamous

- 33) Which of the following types of epithelium is found in intercalated and bile
  - a) High columnar
  - b) High cuboidal to low columnar
  - > Psuedostratified columnar
  - Simple cuboidal
  - Simple squamous
- 34) Which of the following types of epithelium is found in striated ducts?
  - a) High columnar
  - (b) High cuboidal to low columnar
  - s) Psuedostratified columnar
  - d) Simple cuboidal
  - ★ Simple squamous
- 35) Epithelium from which of the following structures is characterized by the presence of cilia and goblet cells with underlying secretory glands, smooth muscle and cartilage?
  - a) Alveoli
  - b) Bile ducts
  - c) Sinusoids
  - d) Stomach
  - Trachea